MA3J142AG, MA3J142KG

Silicon epitaxial planar type

For switching circuits

■ Features

- Allowing high-density mounting
- Short reverse recovery time t_{rr}
- Small terminal capacitance C_t

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	80	V
Maximum peak reverse voltage	V_{RM}	80	V
Forward current	I_F	100	mA
Peak forward current	I_{FM}	225	mA
Non-repetitive peak forward surge current *	I_{FSM}	500	mA
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

Note) *: t = 1 s

Package

• Code

SMini3-F2
• Pin Name

NA ATTACA

MA3J142AG MA3J142KG

1: Cathode 1: Anode 2: N.C. 2: N.C. 3: Anode 3: Cathode

■ Marking Symbol

MA3J142AG: MB MA3J142KG: MI

■ Internal Connection

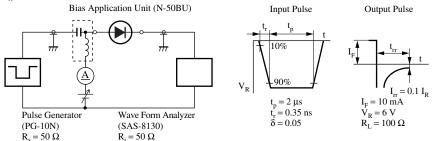




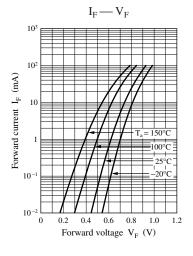
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

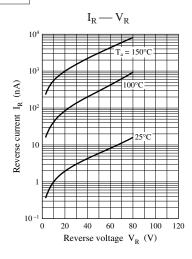
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage	V_R	$I_R = 100 \mu A$	80			V
Reverse current	I_R	V _R = 75 V			100	nA
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$			2	pF
Reverse recovery time *	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
		$I_{rr} = 0.1 I_R, R_L = 100 W$				

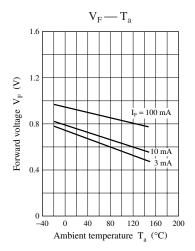
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. Absolute frequency of input and output is 100 MHz.
 - 3. *: t_{rr} measurement circuit

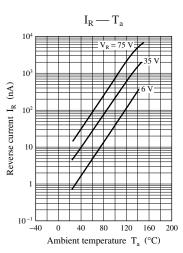


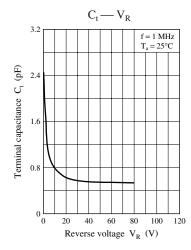
Characteristics charts of MA3J142AG

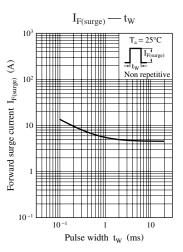








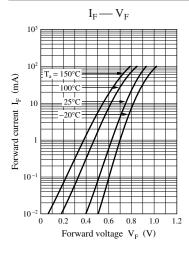


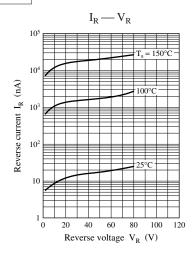


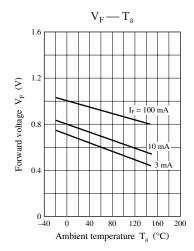
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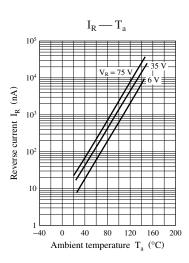
Panasonic

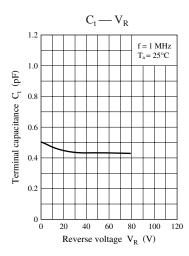
Characteristics charts of MA3J142KG

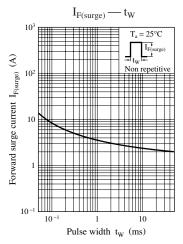






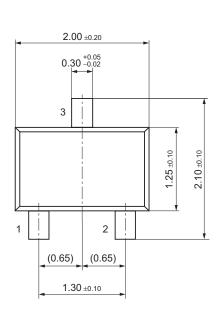


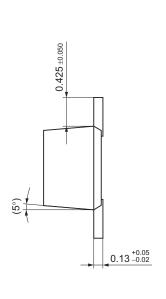




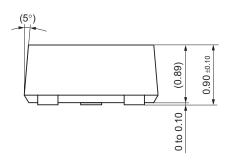
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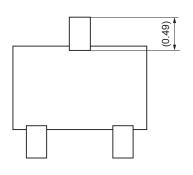
SMini3-F2 Unit: mm











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